

SEQ ID NO:1

FIGURE 1

CCGCGAGGTGCGCGGTCTCTTTAAGGCGGGTCCTGGTGGTTTCTGTTTCCTGAAGGA
AGTGACGGGGGGTGGGATTGAATGAAAAGTGCAAAACACAGGCTCGCAGCGCTGGA
GCCCCGGGGCCGCGGAGCCGGGCGGGGCAGCGCCGTCTCCGCCTCGGGGCGCGCGG
GGGCGCCCTGCTGAGCGCTACCCACGTGCGTCCGCGCCACCTCGCGGGCGACCCCG
CGGCCAAGGCCCCCGGCGGAGCGGCTCCCGGGCGCCCCGAACTAGCCCCCACTTT
GGGCGAAGTTTGCTGCGCTCTCCCCGCCCCACGCGGCGCGCCGGGGCGCGGA
CGGCAGCGGCCCCCGGGGATGCGCCTTCCCGGGGTACCCCTGGCGCGCCCTGCGCT
GCTGCTGCTGCTGCCGCTGCTCGCGCCGCTGCTGGGAACGGGTGCGCCGGCCGAGCT
GCGGGTCCGCGTGCGGCTGCCGGACGGCCAGGTGACCGAGGAGAGCCTGCAGGCGG
ACAGCGACGCGGACAGCATCAGCCTCGAGCTGCGCAAGCCCGACGGCACCCCTCGTC
TCCTTCACCGCCGACTTCAAGAAGGATGTGAAGGTCTTCCGGGGCCCTGATCCTGGGG
GAGCTGGAGAAGGGGCAGAGTCAGTTCCAGGCCCTCTGCTTTGTACCCAGCTGCA
GCACAATGAGATCATCCCCAGTGAGGCCATGGCCAAGCTCCGGCAGAAAAATCCCC
GGGCAGTGCGGCAGGCGGAGGAGGTTTCGGGGTCTGGAGCATCTGCACATGGATGTC
GCTGTCAACTTCAGCCAGGGGGCCCTGCTGAGCCCCCATCTCCACAACGTGTGTGCC
GAGGCCGTGGATGCCATCTACACCCGCCAGGAGGATGTCCGGTTCTGGCTGGAGCA
AGGTGTGGACAGTTCTGTGTTTCGAGGCTCTGCCCAAGGCCTCAGAGCAGGCGGAGC
TGCCTCGCTGCAGGCAGGTGGGGGACCGCGGGAAGCCCTGCGTCTGCCACTATGGC
CTGAGCCTGGCCTGGTACCCCTGCATGCTCAAGTACTGCCACAGCCGCGACCGGCCC
ACGCCCTACAAGTGTGGCATCCGCAGCTGCCAGAAGAGCTACAGCTTCGACTTCTAC
GTGCCCCAGAGGCAGCTGTGTCTCTGGGATGAGGATCCCTACCCAGGCTAGGGTGG
GAGCAACCTGGGCGGGTGGCTGCTCTGGGCCCCACTGCTCTTCACCAGCCACTAGAGG
GGGTGGCAACCCCCACCTGAGGCCTTATTTCCTCCCTCCCCACTCCCCCTGGCCCTA
GAGCCTGGGCCCCCTCTGGCCCCATCTCACATGACTGTGAAGGGGGTGTGGCATGGCA
GGGGGTCTCATGAAGGCACCCCCATTCCCACCCTGTGCCTTCCTTGCGGGCAGAGAG
GGAGAGAAGGGCTCCCCAGATCTACACCCCTCCCTCCTGCATCTCCCCTGGAGTGTT
CACTTGCAAGCTGCCAAAACATGATGGCCTCTGGTTGTTCTGTTGAACTCCTTGAAC
GTTTAGACCCTAAAAGGAGTCTATACCTGGACACCCACCTCCCCAGACACAACTCCC
TTCCCCATGCACACATCTGGAAGGAGCTGGCCCCCTCAGTCCCTTCCTACTCCCCAAC
AAGGGGCTCACTATCCCCAAAGAAGGAGCTGTTGGGGACCCACGACGCAGCCCCTG
TACTGGATTACAGCATATTCTCATCTCTGGCCCCGAGGCTGCCTGTGGGGCGAGTGG
AGACCTCCCATCACTGAGACAGATCACAGACCACGAGTGCCTTTCCCGGACCTGGAC
GTTGCCTCCAAAACAGGCACCAGCTCTTTCCTCTCTAGACAGAAATATTTTTGTAA
GGTTCTGGGGCAGGGAGGGAGCATGAAGTACGAGGAAAACCTTGAATTCCAGATTTT
TAATGCAAAGTATTTATCATTTCTACCAGAAATAAACGTTTTTAAGTTTTTACTTGACT
AATGAGACCCAGAGTTTGGAGAAAACCTTTTGGCCAATGCTGCCACCTGATGTCAGA
AAGTGTCCCCACACCCTAGCAGTGGCCTATCTTGGAACAAGAACTTCGAAAGCACCT

3

ACTGTGTGCTCAGCCATTTGAGGAAGGAAGGAGGAGAAGGAAGATGTTACTAGGGA
AGGATGAGATAAACTTCTGCACCCAAGACAATGAGACAGACATAACTGCAACCGT
AGTAAGCCAGTCAGAAATAGCCAGCGCGAAGGCAAGAGATGGGGTGGAGATTGGA
ACCCCGCTTCAGATCTGGGCTCGGCTACTTACCTGCTGTGCAGCCATGGGTCAAGTT
GCTTGACCTCTCTGTGCCTCCACTCCCTTAGCTATAAAATGAGCTTACTT

SEQ ID NO:2

FIGURE 2

MRLPGVPLARPALLLLPLLAPLLGTGAPAE LRVRVRLPDGQVTEESLQADSDADSISLEL
RKP DGT LVSFTADFKKDVKVFRALILGELEK GQSQFQALCFVTQLQHNEIIPSEAMAKLR
QKNPRAVRQAEEVRGLEHLHMDVA VNFSSQGALLSPHLHNVCAEAVDAIYTRQEDVRF
WLEQGV DSSVFEALPKASEQAELPRCRQVGDRGKPCVCHYGLSLAWYPCMLKYCHSR
DRTPYKCGIRSCQKSYSFDFYVPQRQLCLWDEDPYPG*

SEQ ID NO:3

FIGURE 3

MRLPGVPLARPALLLLPLLAPLLG TGAPA

[illegible]

FIGURE 4

Sequence Range: 1 to 2366

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      10      20      30      40      50      60      70      80      90
SEQ ID NO:1 CCGCGAGGTGCGCGGTCTCTTAAGCGGGTCTGGTGGTTTCTGTTTCTGAAGGAAGTGACGGGGGGTGGGATTGAATGAAAAGTGCA
GGCGCTCCACGCGCCAGAGAAATCCGCCCAGGACCACCAAGACAAAGGACTTCCTTCACTGCCCCCACCCTAACTTACTTTTCACGT
      100     110     120     130     140     150     160     170     180
AAACACAGGCTCGCAGCGCTGGAGCCCCGGGCGCGGAGCCGGGCGGGGCGAGCGCCGTCTCCGCTCGGGGCCGCCGGGGGCGCCCTGC
TTTGTGTCCGAGCGTCGCGACCTCGGGCCCCGGGCGCTCGGCCGGCCCGTTCGCGGCAGAGCGGAGCCCCGGGCGCCCCCGGGGACG
      190     200     210     220     230     240     250     260     270
TGAGCGCTACCCACGTGCGTCCGCGCCACCTCGCGGGCGACCCCCGCGGCCAAGGCCCCGGCGGAGCGGCTCCCGGGCGCCCCGAAGTAG
ACTCGGATGGGTGCACGACGGCGCGGTGGAGCGCCCGTGGGGCGCGGTTCCGGGGCGCGCTCGCCGAGGGCGCGGGGCTTGATC

      280     290     300     310     320     330     340     350     360
CCCCCACTTTGGGCGAAGTTTGCCTGCGCCTCTCCCCGCCCCACGCGCGCGCGGGGCCGCGGACGCGCAGCGGCCCGGGGATGCG
GGGGGTTGAACCCGCTTCAAACGACGCGGAGAGGGGCGGGGTGCGCCGCGCGCCCCGGCGCTGCGCTCGCGGGGCGCCCTACGC
      M R>

      TRANSLATION OF OAFHUMAN [A]
      370     380     390     400     410     420     430     440     450
CCTTCCCGGGGTACCCCTGGCGCGCCTGCGCTGCTGCTGCTGCTGCGCTGCTCGCGCGCTGCTGGGAACGGGTGCGCCGGCCGAGCT
GGAAGGGCCCCATGGGGACCGCGCGGACGCGACGACGACGACGCGGCGACGAGCGCGGCGACGACCTTGCCACGCGCGCGGCTCGA
      L P G V P L A R P A L L L L L P L L A P L L G T G A P A E L>
      TRANSLATION OF OAFHUMAN [A]
      460     470     480     490     500     510     520     530     540
GCGGGTCCGCGTGGCGCTGCCGACGGCCAGGTGACCGAGGAGAGCCTGCAGGCGGACAGCGACGCGGACAGCATCAGCTCGAGCTGCG
CGCCAGGGCGACGCGGACGGCCTGCCGCTCACTGGCTCCTCTCGGACGTCCGCTGCTGCTGCGCCTGCTGCTAGTCGGAGCTCGACGC
      R V R V R L P D G Q V T E E S L Q A D S D A D S I S L E L R>
      TRANSLATION OF OAFHUMAN [A]
      550     560     570     580     590     600     610     620     630
CAAGCCCCGACGGCACCCCTCGTCTCCTTACCGCCGACTTCAAGAAGGATGTGAAGGTCTTCCGGGCCCTGATCCTGGGGGAGCTGGAGAA
GTTTCGGGCTGCCGTGGGAGCAGAGGAAGTGGCGGCTGAAGTTCTTCTACACTTCCAGAAGGCCCGGACTAGGACCCCTCGACCTCTT
      K P D G T L V S F T A D F K K D V K V F R A L I L G E L E K>
      TRANSLATION OF OAFHUMAN [A]
      640     650     660     670     680     690     700     710     720
GGGGCAGAGTCAGTTCCAGGCCCTTGCTTGTGTCACCCAGCTGACGACAAATGAGATCATCCCCAGTGAGGCCATGGCCAAGCTCCGGCA
CCCCGCTCAGTCAAGGTCCGGGAGACGAAACAGTGGGTGCGAGTCGTGTTACTCTAGTAGGGGTCACTCCGGTACCGGTTTCGAGGCCGT
      G Q S Q F Q A L C F V T Q L G H N E I I P S E A M A K L R Q>
      TRANSLATION OF OAFHUMAN [A]
      730     740     750     760     770     780     790     800     810
GAAAAATCCCCGGGCAGTGCGGCAGGCGGAGGAGTTGCGGGTCTGGAGCATCTGCACATGGATGTCGCTGTCAACTTCAGCCAGGGGGC
CTTTTtaggggccccgtcacgccgtccgcctcctccaagccccagacctcgtagacgtgtacctacagcgacagttgaagtcgggtcccccg
      K N P R A V R Q A E E V R G L E H L H M D V A V N F S Q G A>
      TRANSLATION OF OAFHUMAN [A]
      820     830     840     850     860     870     880     890     900
CCTGCTGAGCCCCCATCTCCACAACGTGTGTGCCGAGGCCGTGGATGCCATCTACACCCGCCAGGAGGATGTCCGGTTCTGGCTGGAGCA
GGACGACTCGGGGTAGAGGTGTTGCACACACGGCTCCGGCACCTACGGTAGATGTGGGCGGTCTCTACAGGCCAAGACCGACCTCGT
      L L S P H L H N V C A E A V D A I Y T R Q E D V R F W L E Q>
      TRANSLATION OF OAFHUMAN [A]
      910     920     930     940     950     960     970     980     990
AGGTGTGGACAGTTCTGTGTTTCAGGGCTTGCCCCAAGGCCCTCAGAGCAGGCGGAGCTGCCTCGCTGCAGGCAAGTGGGGGACCGCGGAA
TCCACACCTGTCAAGACACAAGCTCCGAGACGGGTCCGGAGTCTCGTCCGCCCTCGACGAGCGACGTCCGTCCACCCCTGGCGCCCTT
      G V D S S V F E A L P K A S E Q A E L P R C R Q V G D R G K>
      TRANSLATION OF OAFHUMAN [A]
      1000    1010    1020    1030    1040    1050    1060    1070    1080
GCCCTGCGTGTGCCACTATGGCCTGAGCCTGGCCTGGTACCCCTGCATGCTCAAGTACTGCCACAGCCGCGACCGGCCACGCCCTACAA
CGGACGCGAGCGGTGATACCGGACTCGGACCGGACCATGGGGACGTACGAGTTTCATGACGGTGTGCGCGCTGGCCGGGTGCGGGATGTT
      P C V C H Y G L S L A W Y P C M L K Y C H S R D R P T P Y K>

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TRANSLATION OF OAFHUMAN [A]																	
1090	1100	1110	1120	1130	1140	1150	1160	1170									
GTGTGGCATCCGCAGCTGCCAGAAGACTACAGCTTCGACTTCTACGTGCCCCAGAGGCAGCTGTGTCTCTGGGATGAGGATCCCTACCC																	
CACACCGTAGGCGTCGACGGTCTTTCTCGATGTGCAAGCTGAAGATGCACGGGGTCTCCGTCGACACAGAGACCCTACTCCTAGGGATGGG																	
C G I R S C Q K S Y S F D F Y V P Q R Q L C L W D E D P Y	P>																
TRANSLATION OF OAFHUMAN [A]																	
1180	1190	1200	1210	1220	1230	1240	1250	1260									
AGGCTAGGGTGGGAGCAACCTGGGCGGGTGGCTGCTCTGGGCCCCTGCTCTTCACCAGCCACTAGAGGGGGTGGAACCCCCACCTGAG																	
TCCGATCCCCACCTCGTTGGACCGCCACCGACGACCCGGGTGACGAGAAGTGGTCCGGTACTCCCCACCGTTGGGGGTGGACTC																	
G *																	
1270	1280	1290	1300	1310	1320	1330	1340	1350									
GCCTTATTTCCCTCCCTCCCCACTCCCTGGCCCTAGAGCCTGGGCCCTCTGGCCCCATCTCACATGACTGTGAAGGGGGTGTGGCATG																	
CGGAATAAAGGGAGGGAGGGGTGAGGGGACCGGGATCTCGGACCCGGGGAGACCGGGGTAGAGTGTACTGACACTTCCCCACACCGTAC																	
1360	1370	1380	1390	1400	1410	1420	1430	1440									
GCAGGGGGTCTCATGAAGGCACCCCCATTCCACCCCTGTGCCTTCTTGGCGGCAGAGAGGGAGAGAAGGGCTCCCCAGATCTACACCCC																	
CGTCCCCCAGAGTACTTCCGTGGGGTAAGGTGGGACACGGAAGGAACGCCGTCTCTCCCTCTCTCCCGAGGGGTCTAGATGTGGGG																	
1450	1460	1470	1480	1490	1500	1510	1520	1530									
TCCCTCTGCATCTCCCTGGAGTGTTCACCTTGCAAGCTGCCAAAACATGATGGCCTCTGGTTGTTCTGTTGAACCTCCTTGAACGTTTAG																	
AGGGAGGACGTAGAGGGGACCTCACAAGTGAACGTTTCGACGGTTTTGTACTACCGGAGACCAACAAGACAACCTTGAGGAACCTGCAAATC																	
1540	1550	1560	1570	1580	1590	1600	1610	1620									
ACCCTAAAGGAGTCTATACCTGGACACCCACCTCCCCAGACACAACCTCCCTTCCCCATGCACATCTGGAAGGAGCTGGCCCTCAGT																	
TGGGATTTTCTCAGATATGGACCTGTGGGTGGAGGGTCTGTGTTGAGGGAAGGGGTACGTGTGTAGACCTTCTCCGACCGGGAGTCA																	
1630	1640	1650	1660	1670	1680	1690	1700	1710									
CCCTTCTACTCCCCAACAAAGGGGTCTACTATCCCCAAAGAAGGAGCTGTTGGGGACCCACGACGCAGCCCCCTGTACTGGATTACAGCAT																	
GGGAAGGATGAGGGGTGTTTCCCGAGTGATAGGGGTTTCTTCTCGACAACCCCTGGGTGCTGCGTCGGGGACATGACCTAATGTCGTA																	
1720	1730	1740	1750	1760	1770	1780	1790	1800									
ATTCTCATCTCTGGCCCCGAGGCTGCCTGTGGGGCGAGTGGAGACCTCCCATCACTAGACAGATCAGACACCAGAGTGCCTTTCCCGG																	
TAAGAGTAGAGACCGGGGCTCCGACGGACACCCCGCTCACCTCTGGAGGGTAGTGACTCTGTCTAGTGTCTGGTGCTACGGAAAGGGCC																	
1810	1820	1830	1840	1850	1860	1870	1880	1890									
ACCTGGACGTTGCCTCCAAAACAGGCACCACTCTTTCCCTCTCTAGACAGAAATATTTTTGTAAGGTTCTGGGGCAGGGAGGGAGCATG																	
TGGACCTGCAACGAGGTTTTGTCCGTGGTCGAGAAAGGGAGAGATCTGTCTTTATAAAAAACATTCCAAGACCCCGTCCCTCCCTCGTAC																	
1900	1910	1920	1930	1940	1950	1960	1970	1980									
AAGTACGAGGAAAACCTGAATTCCAGATTTTTAATGCAAAGTATTTATCATTCTACAGAAATAAACGTTTTAAGTTTTACTTGACTA																	
TTTATGCTCCTTTTGAACCTTAAGGTCTAAAAATTACGTTTCATAAATAGTAAAGATGGTCTTTATTTCGAAAATTAAAAATGAAGTAT																	
1990	2000	2010	2020	2030	2040	2050	2060	2070									
ATGAGACCCAGAGTTTGGAGAAAACCTTTGGCCAATGCTGCCACCTGATGTGAGAAAGTGTCCCCACACCCTAGCAGTGGCCTATCTTGG																	
TACTCTGGGTCTCAAACCTCTTTTGAAAACCGGTTACGACGGTGGACTACAGTCTTTACAGGGGTGTGGGATCGTCACCGGATAGAACC																	
2080	2090	2100	2110	2120	2130	2140	2150	2160									
AACAAGAACTTCGAAAGCACCTACTGTGTGCTCAGCCATTTGAGGAAGGAAGGAGGAGAAGGAAGATGTTACTAGGGAAGGATGAGATAA																	
TTGTTCTTGAAGCTTTCGTGGATGACACACGAGTCGGTAAACTCCTTCCTTCTCCTTCTCCTTCTACAATGATCCCTTCTCTACTCTATT																	
2170	2180	2190	2200	2210	2220	2230	2240	2250									
AACTTCTGCACCCAAAGACAATGAGACAGACATAACTGCAACCGTAGTAAGCCAGTCAGAAATAGCCAGCGCGAAGGCAGAGATGGGGTG																	
TTGAAGACGTGGGTTCTGTTACTCTGTCTGTATTGACGTTGGCATCATCTCGGTACGCTTTATCGGTGCGGCTTCGTTCTCTTACCAC																	
2260	2270	2280	2290	2300	2310	2320	2330	2340									
GAGATTGGAACCCCGCTTCAGATCTGGGCTCGGCTACTTACCTGCTGTGCAGCCATGGGTCAAGTTGCTTGACCTCTCTGTGCCTCCACT																	
CTCTAACCTTGGGGCGAAGTCTAGACCCGAGCCGATGAATGGACGACACGTCGGTACCCAGTTCAACGAACTGGAGAGACACGGAGGTGA																	

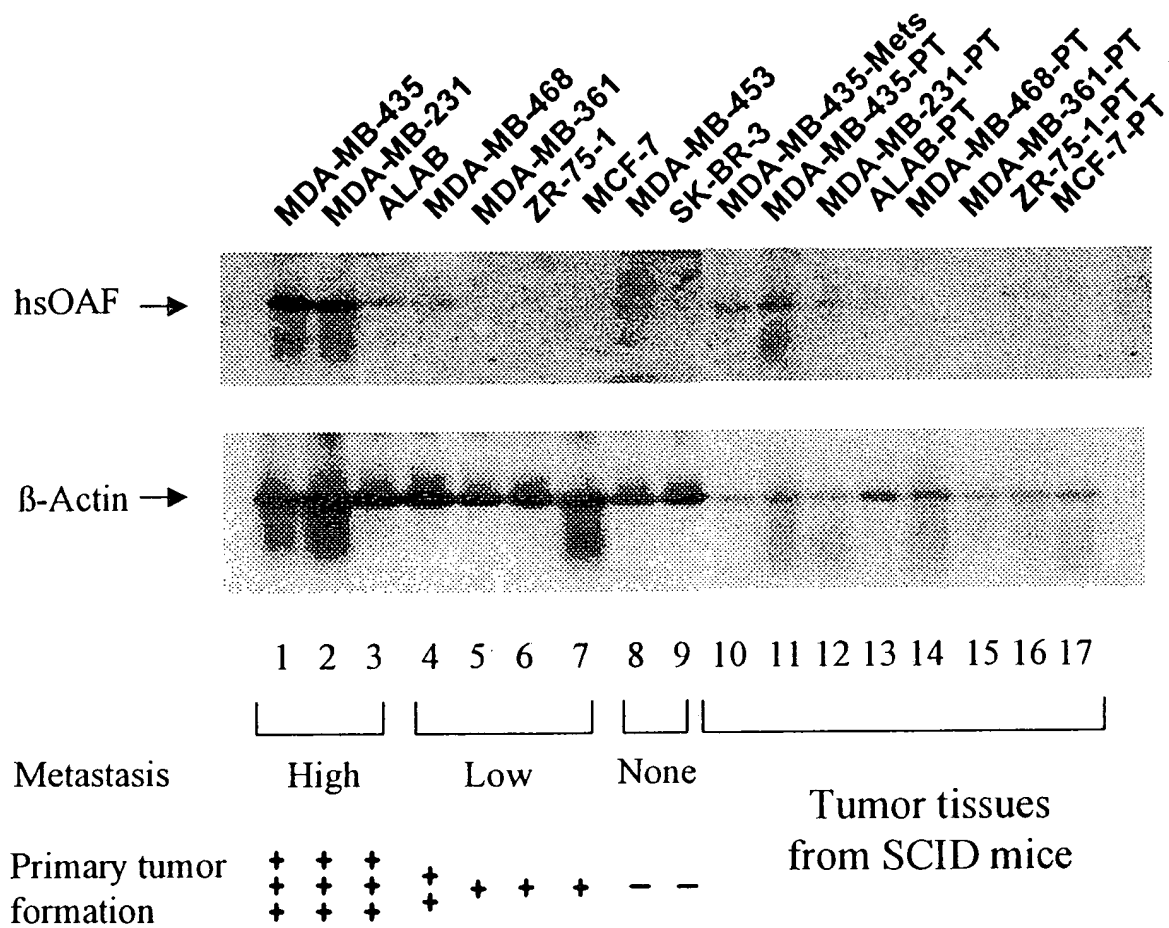
[illegible]

FIGURE 6

MDA-MB-435 soft agar colonies normalized to WST1

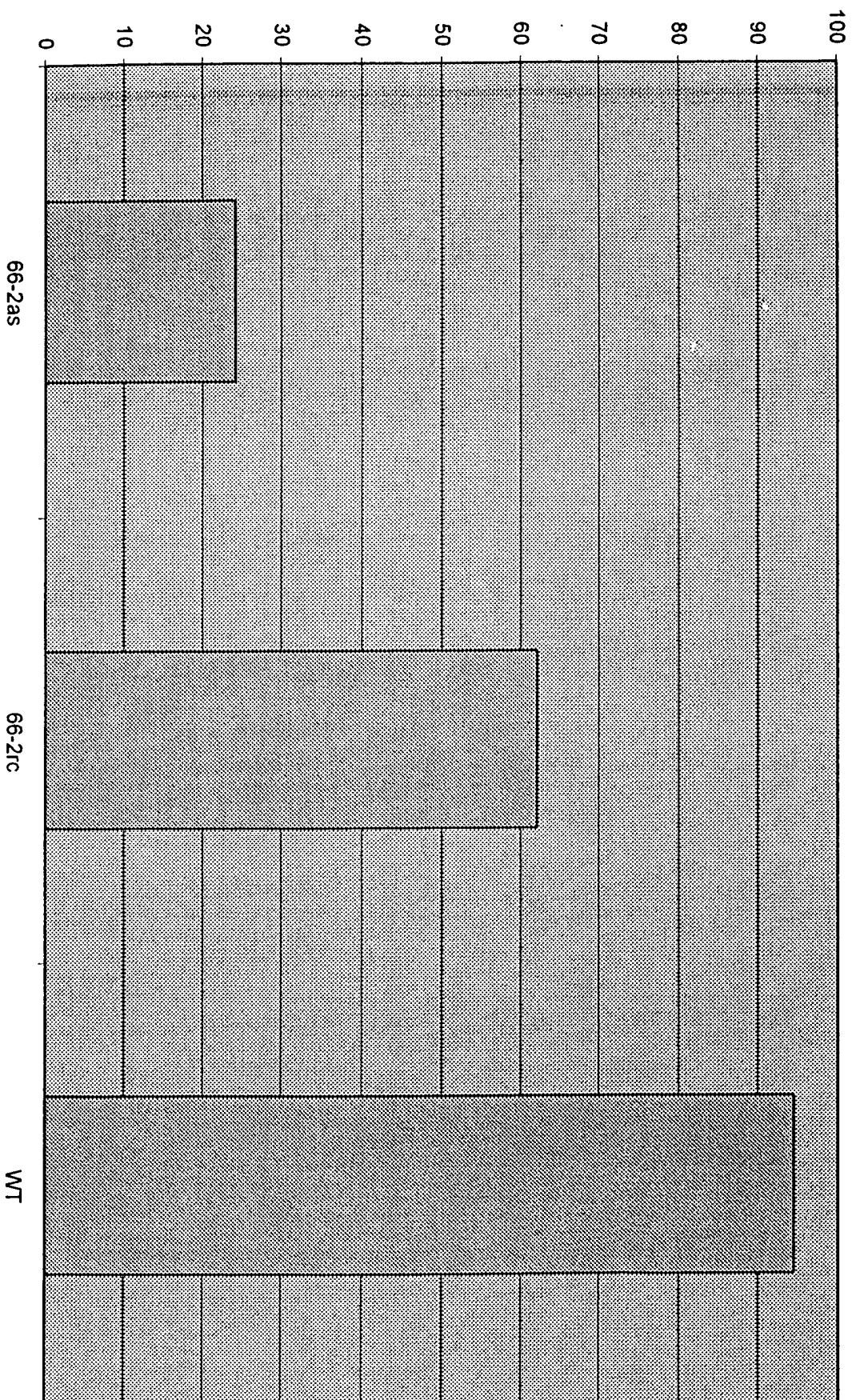


FIGURE 7

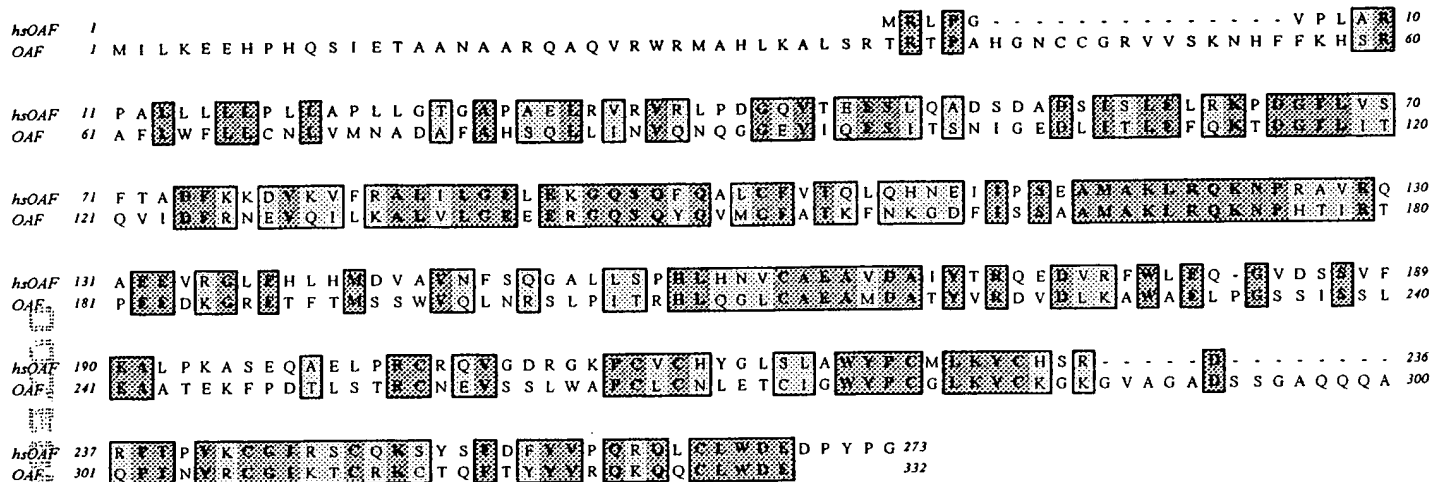


FIGURE 8A

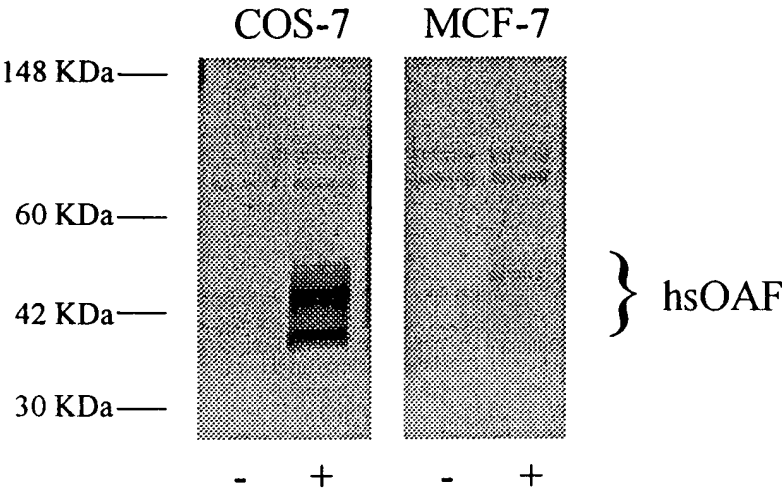


FIGURE 8B

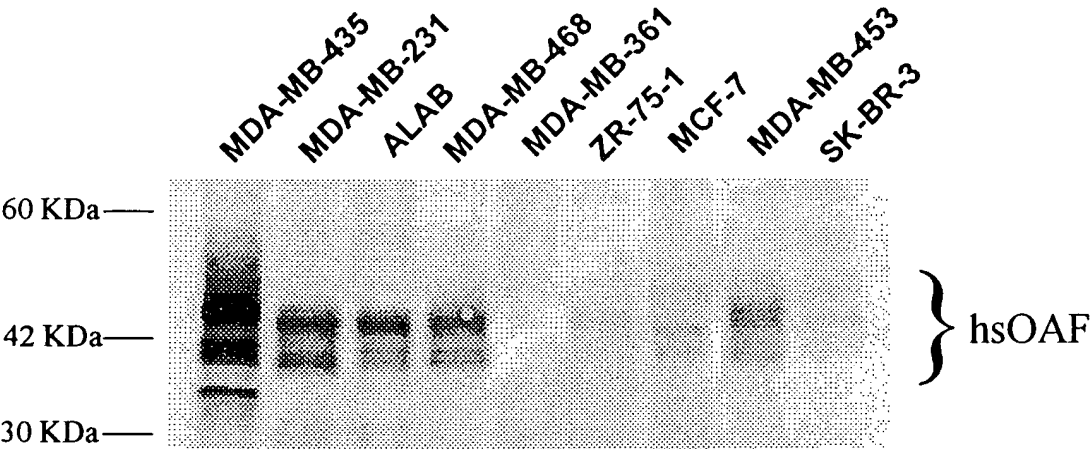
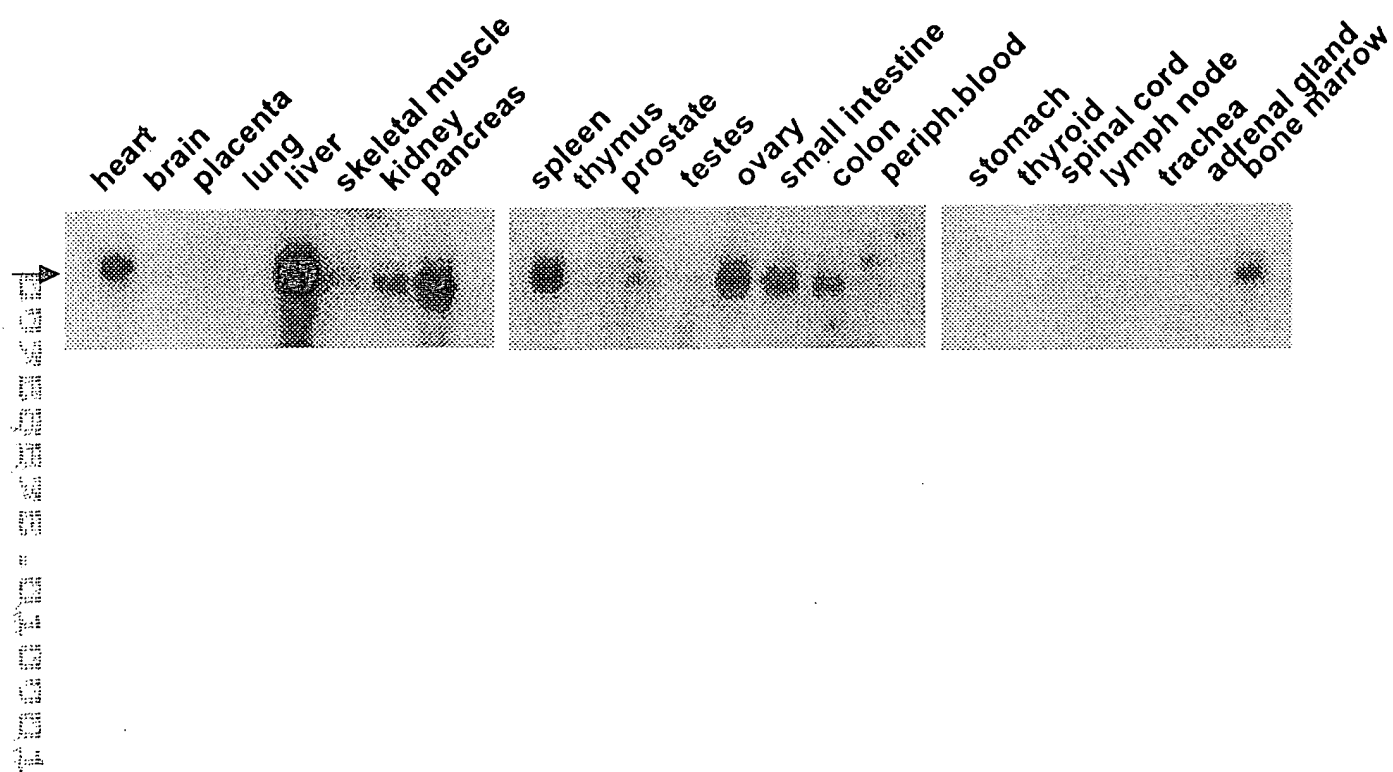
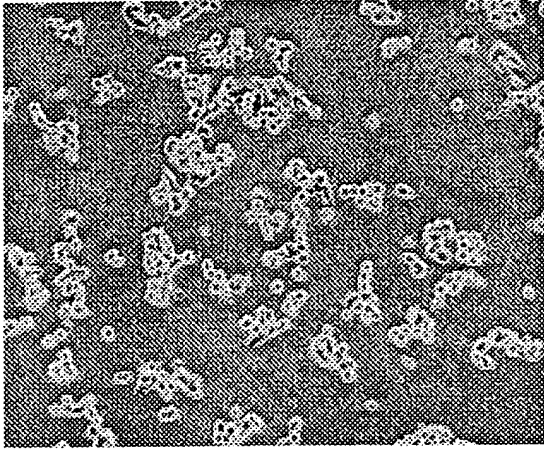
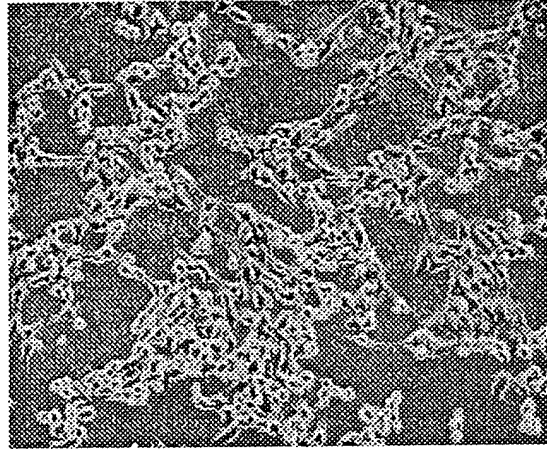


FIGURE 9

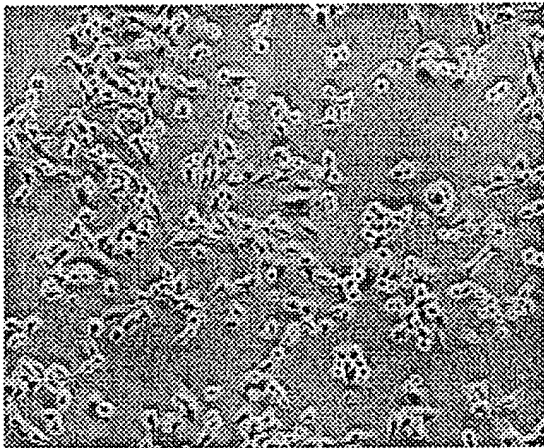


[illegible]

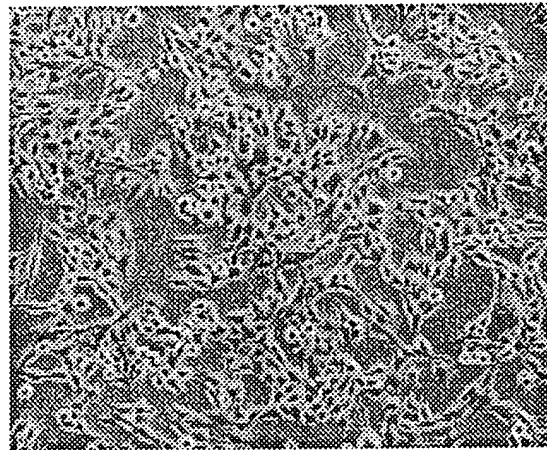
AS



RC



AS+M



Normal

Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

3

FIGURE 12A

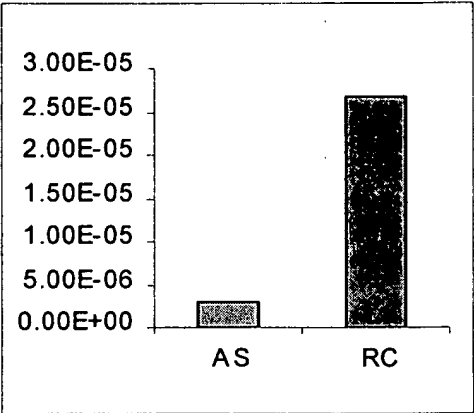


FIGURE 12B

